Attorney Docket No.: 39754-0531A

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

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- 1. (original) An isolated nucleic acid molecule comprising
- (a) a first class switch region (S₁) nucleotide sequence of an upstream immunoglobulin locus under transcriptional control of a first promoter;
- (b) a second class switch region (S₂) nucleotide sequence of an immunoglobulin locus downstream of said upstream Ig locus under transcriptional control of a second promoter, wherein said S₂ sequence serves as a region-specific substrate for class switch recombination (CSR);
- (c) a reporter gene nucleotide sequence encoding a reporter molecule, interposed between said S₁ and S₂ sequences in reverse transcriptional orientation, and
- (d) a promoter, downstream of said nucleotide sequence encoding said reporter molecule, allowing the expression of said reporter molecule only following CSR between said S₁ and S₂ sequences:
- 2. (original) The nucleic acid molecule of claim 1 wherein said S_1 is an $S\mu$ sequence and said S_2 is an $S\gamma 2$ sequence.
- 3. (original) The nucleic acid molecule of claim 1 wherein said S_1 is an $S\mu$ sequence and said S_2 is an $S\epsilon$ sequence.
- 4. (original) The nucleic acid molecule of claim 2 wherein said S₁ and S₂ sequences are G-rich switch region DNA sequences.
- 5. (original) The nucleic acid molecule of claim 3 wherein said S₁ and S₂ sequences are G-rich switch region DNA sequences.
- 6. (original) The nucleic acid molecule of claim 1 wherein said nucleic acid in part (c) and said promoter in part (d) are under control of an internal ribosome entry site (IRES).
- 7. (original) The nucleic acid molecule of claim 1 wherein said nucleic acid in part (c) encodes a Green Fluorescent Protein (GFP) molecule.
- 8. (original) The nucleic acid molecule of claim 1 wherein said nucleic acid in part (c) encodes a reporter molecule selected from the group consisting of β -galactosidase, luciferase, and secreted alkaline phosphatase (SEAP).
- 9. (original) The nucleic acid molecule of claim 1 wherein said first and second promoters are non-inducible constitutive promoters.

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- 10. (original) The nucleic acid molecule of claim 9 wherein said first promoter is a CMV promoter.
- 11. (original) The nucleic acid molecule of claim 9 wherein said second promoter is an SV promoter.
 - 12. (original) An isolated nucleic acid molecule comprising
 - (a) a human Sµ nucleotide sequence under control of a CMV promoter;
 - (b) a human Sγ₂ nucleotide sequence under control of an SV promoter;
 - (c) an RSV LTR enhancer/promoter and GFP gene under control of an internal ribosome entry site (IRES), interposed between said $S\mu$ and $S\gamma_2$ sequences, in reverse transcriptional orientation,
 - (d) a 5' splicing donor site from human β -globulin gene, 3' of said $S\mu$ sequence; and
 - (e) a 3' splicing acceptor site and C ϵ 1 exon, 3' of said S γ 2 sequence.
- 13. (original) The nucleic acid molecule of claim 12 further comprising a nucleic acid fragment of a cytokine-inducible promoter for Ig germline transcription, 5' of said CMV promoter.
- 14. (original) The nucleic acid molecule of claim 13 wherein said cytokine-inducible promoter is an IL-4 inducible Is promoter.
- 15. (original) The nucleic acid molecule of claim 12 selected from the group consisting of XF-1, XF-5a, XF-8, XF-2a, XF-2b, XF-6a and XF-6b.
 - 16. (original) A switch vector comprising a nucleic acid molecule of claim 1.
 - 17. (original) A switch vector comprising a nucleic acid molecule of 12.
- 18. (original) A recombinant host cell stably transfected with the switch vector of claim 16.
- 19. (original) A recombinant host cell stably transfected with the switch vector of claim 17.
 - 20. (original) The host cell of claim 18 which is a mammalian cell.
- 21. (original) The host cell of claim 20, which is a Chinese Hamster Ovary (CHO) cell.
- 22. (currently amended) The host cell of claim 20 which is a primary human B cell or a B cell line cell.
 - 23-48. (canceled)